

Saturday, March 12, 2011 Schedule

8:30 a.m. - 9:00 a.m.	Registration
9:00 a.m. - 10:30 a.m.	Session 1
10:30 a.m. - 10:45 a.m.	Break
10:45 a.m. - 12:15 p.m.	Session 2
12:15 p.m. - 12:45 p.m.	Lunch
12:45 p.m. - 2:15 p.m.	Session 3
2:15 p.m. - 3:00 p.m.	UCR Session

Handouts will be available online at
<http://algebraforum.wikispaces.com>.

Lunch will be served in the lobby
at 12:15 p.m.

Please complete a feedback form
for each session you attend.

**Thank you for attending our
2011 MaTHink Conference.**

**Join us next year for the
2012 MaTHink Conference!!**

About the California Algebra Forum

The California Algebra Forum is a collaborative effort among the California Department of Education (CDE), the Curriculum and Instruction Steering Committee (CISC), the California Comprehensive Center at WestEd, and statewide curriculum groups. The focus of this project is to build a statewide network of technical assistance providers well-versed in the best research related to classroom instruction in algebra.

Goals of the California Algebra Forum

- * Share at the state, regional, and local levels knowledge of current research that supports success in algebra.
- * Provide continuing support and resources for the statewide network of technical assistance providers.
- * Support the development of mathematical proficiency for all students.
- * Broaden our statewide collaboration with relevant stakeholders to advocate for policies that support a clear, cohesive, and consistent vision for mathematics in California.

2011 Algebra Forum MaTHink Committee

Linda Braatz-Brown, UCR
Carol Cronk, SBCSS
Ed D'Souza, Rialto USD
Davida Fischman, CSUSB
Bruce Grip, Chaffey Joint UHSD
Jennifer Hodges, SBCSS
Annette Kitagawa, RCOE
Vicky Kukuruda, RCOE
Oghwa Ladner, Alvord USD
Tracy Piper, Palm Springs USD
Shirley Roath, RCOE
Nettie Roberts, Palm Springs USD
Lydia Song, Alvord USD
Derek Swem, Fontana USD

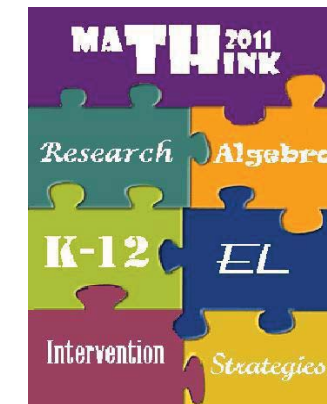
A special thank you to UCR students representing Science Math Initiative (SMI), College University School Partnership (CUSP), and Tomorrow's Teachers in Science and Mathematics for helping with the conference.

For more information, please contact Vicky Kukuruda at
vlkukuruda@rcoe.us or (951) 600-5631.



Region 10 Algebra Forum

2011 MaTHink Conference



**Saturday, March 12, 2011
Riverside County Office of Education
Conference Center
8:30 a.m. – 3:00 p.m.**

Workshop Session 1
9:00 a.m. – 10:30 a.m.

Integers in a Double Block Class
Grades 5-12
Hyatt I

This session will explore adding, subtracting, multiplying, and dividing integers. It will also model how the five phases of DI and the comprehensible input of SIOP support students’ understanding in a double block math class. Oghwa Ladner, Alvord USD & Gabrielle Ladner-Mejia, Moreno Valley USD

Catch ’em Before They Hit The Ground: The Sequel
Grades 9-12
Hyatt II

For the first time in Chris’ career, 100% of his students passed his math class! As a follow-up to last year’s sessions, come hear about the strategies he implemented to accomplish this. Chris Shore, Temecula Valley USD

Orchestrating Productive Discussions in Mathematics
Grades K-12
Landis I

Using the research and practices of Peg Smith (AF 2010), we will discuss non-traditional problems and strategies to facilitate successful classroom discussions. Jennifer Hodges, SBCSS

Mastering Multiplication Facts
Grades 2-6
Landis II

This workshop focuses on strategies to help students memorize and conceptually understand multiplication facts through various math properties and motivation as well as the importance of preteaching math vocabulary through the use of songs. Anne-Marie Bravo, Perris Elementary SD

Number Talks for Algebraic Thinking
Grades 3-5
Cree

Short, fun “Number Talks” build students’ computational fluency while helping them grow into flexible thinkers capable of developing and communicating their own mathematical ideas. Give your students the keys to success in algebra! Madeleine Jetter, CSUSB

Fractions Using Tangrams
Grades 3-6
Johnson

We will explore connections between fractional areas and writing equations. Activities will provide opportunities for a deeper understanding of writing equations, properties of numbers and substituting values to prove fractional areas. Shirley Roath, RCOE & Linda Braatz-Brown, UCR

Early Numeracy Matters!
Grades PreK-2
Gregory

In-class strategies and/or school-wide intervention plans for supporting young students who struggle making sense of numbers and learning their basic facts as well as research-based assessments and instructional strategies. Valerie Henry, UCI

Workshop Session 2
10:45 a.m. – 12:15 p.m.

Why Do I Need to Know Math?
Grades 6-12
Hyatt I

Explore how quadratic equations enabled scientists to make predictions about anti-matter, geometry led to the development of the LASER, algebra is used to fight cancer, numerical simulations further our understanding of nanotechnology and more! Maria C. Simani, UCR

Do You Really Know How to Solve Equations?
Grades 9-12
Hyatt II

Participants will be exposed to contradictory situations that rise from students’ ways to solve equations. Solving these cognitive conflicts will develop more awareness to the underlying structure behind algebra. Greisy Winicki Landman, Cal Poly Pomona

3-D Paper Mechanisms
Grades 3-8
Landis I

Become a paper engineer! Learn to make your own three-dimensional animated paper mechanisms using cardstock and tape. Dina Williams, Los Angeles USD

Using a Graphic Organizer to Teach Proportions
Grades 4-8
Landis II

Do your students struggle with proportional reasoning? Come learn about a graphic organizer that can be used to teach proportions, especially as it relates to percentages and simple interest. Ed D’Souza, Rialto USD

Differentiation Strategies for Pre and Post Assessments
Grades 6-12
Cree

Learn how teachers can differentiate inside and outside of their classes on a regular basis. I will share how I was able to work collaboratively with other algebra teachers to mix our students to meet their needs. David Apodaca, San Bernardino City USD

Fractions Using Tangrams
Grades 3-6
Johnson

We will explore connections between fractional areas and writing equations. Activities will provide opportunities for a deeper understanding of writing equations, properties of numbers, and substituting values to prove fractional areas. Shirley Roath, RCOE & Linda Braatz-Brown, UCR

Building Basic Facts Fluency and Part-Whole Thinking
Grades K-2
Gregory

Using six research-based strategies, you can accelerate students’ number sense and addition/subtraction facts to automaticity. Thousands of students have made remarkable progress with these strategies! Valerie Henry, UCI

Workshop Session 3
12:45 p.m. – 2:15 p.m.

Teaching Mathematics to English Learners
Grades 7-12
Hyatt I

Participants will engage in strategies that help make math accessible to ELs. The focus will be on vocabulary, academic discourse, and questioning in math lessons at all grade levels. Diane Kinch, CMC-S & Marco Sanchez, Pomona USD

Algebra Lesson Study for High School
Grades 9-12
Hyatt II

In collaboration with the district math specialist, this algebra team planned a lesson study to improve the depth of instruction for their high school students. Their experience shows lesson study is also effective at the high school level. Tracy Piper, Palm Springs USD & Nettie Roberts, Palm Springs USD

Common Core State Standards
Grades K-12
Landis I

This session will provide an overview of the CA Common Core State Standards and information on potential assessments. Bruce Grip will share his experiences being on the panel that made CCSS recommendations to the State Board of Education. Bruce Grip, Chaffey Joint UHSD & Annette Kitagawa, RCOE

Calculator Activities That Support the CCSS
Grades 3-7
Landis II

Four-function calculators can be used to develop number sense, as well as higher level symbol sense with compound expressions. This hands-on session includes activities and problems, games and races; calculator vs. mental vs. paper. Susan Addington, CSUSB

Building a Concept Using the Singapore Math Method
Grades K-3
Cree

Participants will work through contextual problems using the Singapore Math Method with an emphasis on defining the algebraic unit to use in depicting the problem pictorially. Mary Bruno, Rialto USD

Classroom Engagement Research and Practical Examples
Grades K-12
Johnson

Do you have students who are distracted, bored, or disinterested? Learn about the research behind student engagement and Doug Reeves’ Top 5 Strategies for Classroom Engagement. You will receive a handout of 62 engagement strategies. Vicki Kukuruda, RCOE

Got 5 Minutes, Got Number Sense – Ten Frames
Grades K-2
Gregory

Tired of Kill and Drill? Learn how to develop number sense, flexibility, and algebraic thinking with daily routines. Use Ten Frames and infuse talk about algebraic properties to strategically create mathematically proficient students! Lydia Song, Alvord USD

10:30 a.m. – 10:45 a.m.

Break

12:15 p.m. – 12:45 p.m.

Lunch

2:15 p.m. – 3:00 p.m. **College Credit (Johnson)**